

YANYSHEVA , V. S.; SAZONOV A.

Determination of sulfates in distilled water with salicylfluorone.  
Metod. anal. khim.reak. i prepar. no. 4:133-135 '62. (MIRA 17:5)

1. Nauchno-issledovatel'skiy institut po udobreniyam i insektofungisidam imeni Samoylova.

SAZONOVA, Z.G.

KULAGIN, S.G.; KOVBASYUK, L.D.; DAGAYEV, M.M.; ROZENBLIUM, N.D.; YEGORCHENKO, I.F.(Irkutsk); KAVERIN, A.A. (Irkutsk); KONSTANTINOVA, T.G. (Irkutsk); KUHLINA, V.A. (Irkutsk); KUHLIN, G.V. (Irkutsk); SAZONOVA, Z.G., (Irkutsk); CHERNYKH, L.I. (Irkutsk); CHERNYKH, N.S. (Irkutsk); DEMIDOBICH, Ye.G.; BRONSHTEIN, V.A.; YAKHONTOVA, N.S. (Leningrad); PEROVA, N.B.; DOKUCHAEVA, O.D.; KATASEV, L.A.; KLYAKOTKO, M.A.; PARENAGO, P.P.; SHCHERBINA-SAMOYLOVA, I.S.; MASEVICH, A.G.; RYABOV, Yu.A.; SHCHEGLOV, V.P.; PEREL', Yu.G.; MARTINOV, D.Ya.; FEDYNSKIY, V.V.; VORONTSOV-YEL'YAMINOV, B.A.; ZIGEL', F.Yu.; BAKULIN, P.I., otv.red.; RAKHILIN, I.Ye., red.; AKHLLAMOV, S.N., tekhn.red.

[Astronomical calendar] Astronomiceskii kalender'. [A yearbook; variable section for 1959] Ezhegodnik, Peremennaya chast', 1959. Red.kollegija P.I. Bakulin i dr. Moskva, Gos.izd-vo fiziko-matem.lit-ry, 1958. 370 p. (Vsesoiuznoe astronomico-geodesicheskoe obshchestvo, no.62) (MIRA 12:2)

1. Gosudarstvennye astronomico-geodesicheskoye obshchestva (for Kulagin, Kovbasyuk, Demidevich). 2. Moskovskoye otdeleniye Vsesoyuznogo astronomico-geodesicheskogo obshchestva (for Dagayev, Rozenblium, Bronshtein, Perova).

(Astronomy--Yearbooks)

"APPROVED FOR RELEASE: 03/14/2001

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*G-70 NOV 21*

✓Chemical treatment of electrolytic baths for the oxidation  
of brass copper and bronze articles

Chemical treatment of brass copper and bronze articles  
for the oxidation of brass copper and bronze articles  
Date: April 1955 No. 3

Starting materials: brass copper and bronze articles  
and the oxidation products.

Reactions: Oxidation of brass copper and bronze articles  
formed on brass and copper articles by the action of  
hydrogen peroxide, which has a strong  
oxidizing effect. The reduction potential of hydrogen peroxide  
is higher than that of the metal ions formed directly by the action of air  
on the surface of the metal.

Optimum conditions:

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CIA-RDP86-00513R001447520004-4

~~SAZONOVA, Z.I.~~  
SKVORTSOV, V.N., professor, doktor khimicheskikh nauk; ~~SAZONOVA, Z.I.~~,  
assistant.

Trisodium phosphate substitutes used in degreasing soldered brass  
parts. [Trudy] MVTU no.24:16-19 '53. (MLRA 7:10)  
(Metal cleaning)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447520004-4"

SAZONOVA, Z. I.

"On the Method of Determining Niobium in Steels." Cand Chem Sci, Inst  
of Geochemistry and Analytical Chemistry imeni Prof Samoylov, 23 Dec 54.  
(VM, 13 Dec 54)

Survey of Scientific and Technical Dissertations Defended at USSR  
Higher Educational Institutions (12)  
SO: Sum. No. 556, 24 Jun 55

BOTVINNIK, M.M., professor, doktor tekhnicheskikh nauk; KARPOL', E.M., inzhener; GORODSKIY, D.A., professor, doktor tekhnicheskikh nauk; SAZONOVA, Z.K., inzhener.

Experimental investigation of the operation of synchronous machines having longitudinal and lateral excitation. Vest. elektroprom. 28 no.2:28-31 F '57. (MLRA 10:3)

1. Tsentral'naya nauchno-issledovatel'skaya elektrotekhnicheskaya laboratoriya Ministerstva elektrostantsii (for Botvinnik and Karpel')
2. Nauchno-issledovatel'skiy institut Ministerstva elektropromyshlennosti (for Gorodskiy and Sazonova)  
(Electric generators)

BOTVINNIK, Mikhail Moiseyevich; SAZONOVA, Z.K., red.; BORUNOV, N.I.,  
tekhn.red.

[Asynchronized synchronous machine; theoretical fundamentals]  
Asinkhronizirovannia sinkhronnaia mashina; osnovy teorii.  
Moskva, Gos.energ.izd-vo, 1960. 67 p. (MIRA 13:10)  
(Electric machinery)

SAZONOV, Z.K.

REF ID: A

Vestnopravobalkanskoj akademii nauchno-tekhnicheskikh postuplenij i protsessov v mehanika i mekhanicheskikh tekhnologiyakh

post. N. Konev, 1959

Elektrosvyaz i avtomatizatsiya preryvayushchym ustrojstvom: trudy s'ezda po elektronike (Radioelektronika i avtomatika) v industrii. Osnovnye trudy s'ezda. Translations of the Conference Proceedings. Moscow, Gosplanpolzdat, 1960. 270 p., 11,000 copies printed.

General Ed.: J.J. Petkov, A.A. Sivovin, and M.G. Chilkin. Eds.: T.I. Sud, and L.P. Shlyapnikov. Transl. Eds.: I.P. Vorozin, and G.I.R. Larimore.

PURPOSE: The collection of reports is intended for the scientific and technical personnel of scientific research institutes, plants and schools of higher education.

CONTENTS: The book is a collection of reports submitted by scientific workers at plants, scientific institutes and schools of higher education at the third Joint All-Union Conference on the Automation of Industrial Processes in Machine Building and Automated Electric Drives in Industry held in Moscow on May 12-16, 1959. The Conference was called by the Presidium of Sciences USSR, the Central Scientific Planning Commission (CSC), the CSC, the Coordinating Committee for Standardization, Measurement, and Metrology (State Committee on Automation and Machine Building) and the National Committee on Automatic Control, prepared by the Russian Academy of Sciences, the All-Union Scientific-Research Institute of Automation and Technical Control, the All-Union Scientific-Research Institute of Radioelectronics (Institute of Radioelectronics), the VNIIT, the IAI (Institute of Electric Drives), the NII (Moscow Institute of the Academy of Sciences USSR), and the Kosmologiya po Tekhnicheskoi Mehanicheskoi Radiotekhnike, Radioelektronika i Avtomatika. At CSC (Commission on the Technology of Machines) it was the purpose of the Editorial Board to arrange the reports in such a way which would ensure a relatively systematic presentation of theoretical and practical problems relating to electric drives and automatic control of industrial mechanisms used in various branches of industry. Basic problems of automated electric drives and their solution are outlined. The book also contains articles on electrical machinery and means of automation. Considerable attention is paid to non-linear electronic amplifiers, and to computers intended both for the analysis and the synthesis of linear and nonlinear systems. In addition to the papers which have already been published in journals or official publications, there have been considerably more than those which have appeared in volume V of CSC transactions or in the journal "Radioelektronika i Avtomatika". References to papers appearing in CSC transactions are marked with an asterisk. No references are given to the papers "On the Application of the Computer to the Solution of Problems of Optimization in the Theory and Practice of Electric Drives and Automation of Control".

#### PRACTICE OF ELECTRIC DRIVES AND AUTOMATION OF CONTROL

Bogolyubov, N.N. Doctor of Technical Sciences, and Z.I. Sosulin. Engineers.

Spaschenko, I.M. Candidate of Technical Sciences and Prospects of Its Application.

Bogolyubov, P.A. Doctor, Candidate of Technical Sciences. High-Power Rotating Amplifiers.

Chechenko, Yu. I. Doctor, Candidate of Technical Sciences. Rotating Amplifiers With Complementary Fields.

Kostin, V. M. Engineer. Rotating Amplifiers of Transverse Field With Radius.

Hilger, H. Doctor, Candidate of Technical Sciences. High-Power Rotating Amplifiers.

Popov, V. I. Doctor, Candidate of Technical Sciences. Motor-Amplifiers Combining a Magnetic Amplifier With an Electric Machine.

Rebotenko, B.A. and L.A. Slobodchikov. Engineers. Ways of Improving the Motor Operation of Stepper-Step Electric Motors.

Strel'tsov, G.B. Professor, Doctor of Technical Sciences. Construction Problems of Modern Low-Voltage Equipment.

Martynov, N.M. and M.M. Tolokonnikov. Engineers. Interleaving Control With the Use of Standard Units of Low-Current Equipment.

Stepanovitch, T.O. Candidate of Technical Sciences. Magnetic Amplifiers for Automatic Control Systems and the Regulation of Industrial Electric Drives.

Sivovin, A.A. Doctor, Candidate of Technical Sciences. Some Theoretical and Practical Problems Relating to High-Speed Magnetic Amplifiers for Servosystems.

Ivanov, R.A. Professor, and I.S. Novozhilov. Doctor, Candidate of Technical Sciences. Calculation of Single-Crystal Magnetic Amplifiers With Self-Magnetization.

Stepanov, N.M. Doctor of Technical Sciences. Improving Reliability and

Assurance of Long-Distance Transformer Transmissions.

Emel'yanov, V.G. Doctor of Technical Sciences. High-Efficiency Small-Inductor Rectifiers for the Control of Electric Machine Excitation.

Emel'yanov, V.G. Candidate of Technical Sciences. High-Efficiency Small-

Inductors.

Emel'yanov, V.G. Doctor of Technical Sciences. High-Efficiency Small-

Inductors.

Emel'yanov, V.G. Doctor of Technical Sciences. High-Efficiency Small-

Inductors.

Emel'yanov, V.G. Doctor of Technical Sciences. High-Efficiency Small-

Inductors.

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"APPROVED FOR RELEASE: 03/14/2001

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SAZONOVA, Z.K., inzh.; FEZI-ZHILINSKAYA, M.S., inzh.; SHAKARYAN, Yu.G., inzh.

Static stability of an asynchronized synchronous machine.  
Vest. elektroprom. 33 no.5:48-52 My '62. (MIRA 15:5)  
(Electric generators)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447520004-4"

SAZONOVA, Z.K., inzh.

Operation of asynchronized synchronous generators with super-long electric power transmission lines. Vest. elektroprom.  
33 no.11:44-50 N '62.

(MIRA 15:11)

(Electric generators)  
(Electric power distribution)

TIKHOIROVA, O.F.; STREBULAYEVA, Ye.N.; SAZONOV, Z.V.

Determining ferrous oxide in chromium ores and slags. Sbor.  
TSNIIICHM no.31:180-181 '63. (MIRA 16:7)  
(Chromium ores--Analysis) (Slag--Analysis) (Iron oxide)

SAZONOV, N. I.

"Application of Method of Induction Losses for Drying Transformer Oil," Elek. Stav.,  
No. 7, 1949. Engr.

SAGGIVOV, A. I.

"Experience in Controlled Initial Heating of Transformers," Elek. Stan., No. 10, 1949.  
Engr.

SAZONTOV, A.P., leytenant meditsinskoy sluzhby

Treating excessive perspiration of the feet at the unit level.  
Voen.-med.zhur. no.9:82-83 S '56. (MLRA 10:3)  
(FOOT--CARE AND HYGIENE) (PERSPIRATION)

SAZONTOV, N. V;GAMBARJAN, L.

Exercise in pregnancy and puerperium. Prakt. lek., Praha 32  
no.3:51-55 5 Feb 1952, (CLML 22:2)

1. Of the Institute for the Care of Mother and Child (Head--Prof.  
J. Trapl, M. D.), Prague-Podole.

SAZONTOV, V.I., professor (Leningrad)

Beer yeast. Priroda 44 no.12:102-104 D '55. (MLRA 9:1)

(Yeast)

SAZONTOV, V.I.; GAYDEROV, V.Ye.

Using sand beddings in making larger castings. Lit. proizv. no.  
10:37-38 0 '63. (MIRA 16:12)

SITNIKOV, Gennadiy Dmitriyevich; DOBROZRAKOV, Oleg Ivanovich;  
SAZONTOV, Vitaliy Ivanovich; GUROV, S., red.; KUZNETSOVA,A.,  
tekhn. red.

[The plant was helped by the foundry section] Zavodu pomog-  
la sektsiiia liteishchikov. Moskva, Mosk. rabochii, 1963. 71 p.  
(MIRA 17:3)

SAZULINA, S. A., and ROGOVIN, S. A.

"Fluorine containing polyacrylonitrile fibers (Fluorlon)," a paper presented at the 9th Congress on the Chemistry and Physics of High Polymers, 23 Jan-2 Feb 57, Moscow, Textile Research Inst.

B-3,084,395

SAZUNIC, Z.

"Sea fish trade; participation of fishers-producers." p. 169. (JORSKO RIBARSTVO, Vol. 4,  
no. 11/12, 1952, Zagreb, Yugoslavia)

SO: Monthly List of East European Accession, Vol. 2, #8, Library of Congress  
August, 1953, Unclassified

35576

S/056/62/042/003/034/049  
B102/B138

101200 245300

AUTHORS: Zhdanov, V., Kagan, Yu., Sazykin, A.

TITLE: Effect of viscous momentum transfer on diffusion in a gas mixture

PERIODICAL: Zhurnal eksperimental'noy i teoreticheskoy fiziki, v. 42,  
no. 3, 1962, 857 - 867

TEXT: A theoretical investigation of the diffusion of a multi-component gas mixture is given when assuming viscous momentum transfer. The well-known method of moments by H. Grad (Comm. Pure and Appl. Math. 2, 331, 1949) is applied and the general system of diffusion equations is derived in the "13-moment" approximation. The relations obtained make it possible to analyze the effects of viscous momentum transfer on the diffusion. The calculations are carried out on the assumption that  $\lambda/L \ll 1$  and  $\tau/T \ll 1$ ;  $\lambda$  and  $\tau$  are the mean free path and time, resp. and  $L$  and  $T$  are the characteristic length and time parameters of the changes in the mixture. The distribution function of the component  $\alpha$  in a gas mixture is expanded into a series of Hermite polynomials  $H_{\alpha_1 \dots \alpha_s}^{(s)}(\vec{c}_\alpha)$ :

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Effect of viscous momentum transfer...

$$f_\alpha(r, v_\alpha, t) = f_\alpha^{(0)} \sum_{s=0}^{\infty} \frac{1}{s!} \left( \frac{m_\alpha}{kT} \right)^s A_{\alpha l_1 \dots l_s}^{(s)}(r, t) H_{\alpha l_1 \dots l_s}^{(s)}(c_\alpha); \quad (2.1)$$

$$f_\alpha^{(0)} = \left( \frac{m_\alpha}{2\pi kT} \right)^{3/2} \exp \left( -\frac{m_\alpha c_\alpha^2}{2kT} \right), \quad c_\alpha = v_\alpha - \bar{u},$$

$$A_{\alpha l_1 \dots l_s}^{(s)}(r, t) = \int H_{\alpha l_1 \dots l_s}^{(s)}(c_\alpha) f_\alpha dv_\alpha.$$

$m$  and  $\vec{v}$  are mass and velocity of molecules,  $\bar{u}(r, t)$  is the macroscopic velocity of the gas mixture as a whole. In the approximation of 13 moments this distribution function can be represented as

$$f_\alpha = f_\alpha^{(0)} \left\{ n_\alpha + (1/kT) j_{ai} c_{ai} + (\rho_\alpha / 2kT p_\alpha) \rho_{aik} (c_{ai} c_{ak} - (kT/m_\alpha) \delta_{ik}) + \right. \\ \left. + \frac{1}{6} (\rho_\alpha / kT p_\alpha) h_{ait} c_{at} [(m_\alpha c_\alpha^2 / kT) - 5] \right\}, \quad (2.6)$$

For the variations in time and in displacement coordinates a closed set of differential equations is obtained which describes diffusion, thermal conductivity, viscosity and their mutual relations. The final and general system of diffusion equations is obtained as

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V

S/056/62/042/003/034/049  
B102/B138

Effect of viscous momentum transfer...

$$\begin{aligned} \sum_{\beta} \frac{n_{\alpha} n_{\beta} kT}{n(D_{\alpha\beta})_1} (u_{\alpha i} - u_{\beta i}) = & - \left[ \frac{\partial p_{\alpha}}{\partial x_i} - \frac{p_{\alpha}}{p} \frac{\partial p}{\partial x_i} \right] + \left[ n_{\alpha} X_{\alpha i} - \frac{p_{\alpha}}{p} \sum_{\beta} n_{\beta} X_{\beta i} \right] + \\ & + \sum_{\beta} \xi_{\alpha\beta} \left( \frac{\lambda_{\alpha}}{m_{\alpha} n_{\alpha}} - \frac{\lambda_{\beta}}{m_{\beta} n_{\beta}} \right) \frac{\partial T}{\partial x_i} + 2 \left[ \eta_{\alpha} - \frac{p_{\alpha}}{p} \eta \right] \frac{\partial c_{ik}}{\partial x_k} + \\ & + \frac{4}{5} k \left( \frac{T}{p} \right)^2 \sum_{\beta=1}^N \sum_{\delta=1}^N \xi_{\alpha\beta} \eta_{\delta} \left[ \frac{|b|_{\delta\beta}}{m_{\beta} |b|} - \frac{|b|_{\delta\alpha}}{m_{\alpha} |b|} \right] \frac{\partial e_{ik}}{\partial x_k} - \\ & - k \left( \frac{T}{p} \right)^2 \sum_{\beta=1}^N \sum_{\delta=1}^N \sum_{v=1}^N \frac{kT}{m_{\delta}} \xi_{\alpha\beta} \xi_{\delta v} \left( \frac{|b|_{\delta\beta}}{m_{\beta} |b|} - \frac{|b|_{\delta\alpha}}{m_{\alpha} |b|} \right) (u_{\delta i} - u_{vi}), \quad (3.8) \end{aligned}$$

The equations obtained are used to investigate the diffusion in a two-component mixture. Several formulas for the barodiffusion constant  $\alpha_p$  are derived. In the Kihara approximation

$$\begin{aligned} \alpha_p = & \frac{9A^*}{5+3A^*} \left[ 1 + \frac{(6C^*-5)(25+25A^*-18A^{*2})}{24A^*(5+2A^*)} \right] \frac{m_2-m_1}{m_2+m_1} - \\ & - \frac{6A^*}{5+3A^*} \left[ 1 - \frac{5(6C^*-5)(1+3A^*)}{12A^*(5+2A^*)} \right] \frac{\sigma_2-\sigma_1}{\sigma_{12}}. \quad (4.10) \end{aligned}$$

is obtained for a viscous flow of an arbitrary binary mixture; for an incompressible liquid

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Effect of viscous momentum transfer...

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$$\alpha_p = p \left( \frac{\partial \mu}{\partial p} \right)_{y_1, T} / \left( \frac{\partial \mu}{\partial y_1} \right)_{p, T} y_1 (1 - y_1) + kTc / 2\eta D_{12} y_1 (1 - y_1).$$

is obtained.  $y$  is the molar concentration,  $\mu$  the chemical potential,

$$\rho_{aik} = -2\eta_a e_{ik}, \quad \eta_a = y_a \sum_{\beta=1}^N y_{\beta} |a|_{\beta a} \quad (3.6)$$

$|a_p|$  depends significantly on the nature of the interaction between the molecules and can have any sign. The cause of the difference between the value of  $\alpha_p$  obtained and

$$\sigma_p = (m_2 - m_1) / [m_1 y_1 + m_2 (1 - y_1)]. \quad (4.6)$$

obtained by irreversible thermodynamical methods is discussed. There are 1 figure and 10 references: 2 Soviet and 8 non-Soviet. The four most recent references to English-language publications read as follows:  
 C. Muckenfuss, C. Curtiss. J. Chem. Phys., 29, 1273, 1958; T. Kihara. Rev. Mod. Phys. 25, 873, 1953; C. Curtiss, J. Hirschfelder. J. Chem. Phys. 17, 550, 1949; S. Chapman, T. Cowling. Proc. Phys. Soc. A179, 159, 1941.

SUBMITTED: October 9, 1961  
Card 4/4

✓

GRAVERT, G.; LYUDERS, G.; ROL'NIK, G.; SAZYKIN, A.A. [translator]

TCP theorem and its applications. Usp.fiz.nauk 71 no.2:  
289-325 Je '60. (MIRA 13:6)  
(Hilbert space) (Field theory)

42456

S/725.61/000/003/003/008

AUTHORS: Yegiazarov, B.G., Maksimov, L.A., Sazykin, A.A.

TITLE: On the possible investigation of high-concentration plasma with respect to the angular distribution of two-photon annihilation of positrons.

SOURCE: Nekotoryye voprosy tekhniki fizicheskogo eksperimenta pri issledovanii gazovogo razryada; nauchno-tehnicheskiy sbornik, no. 3. A. V. Chernetskiy and L.G. Lomize, eds. Moscow. Gosatomizdat. 1961, 114-121.

TEXT: The paper lays the theoretical groundwork and proposes a possible experimental configuration for the measurement of the angular distribution of the two-photon annihilation (which is appreciably more probable than the one- and three-photon processes) as a means for determining the energy spectrum and, consequently, the electron temperature  $T_e$  of the plasma. The velocity distribution of the electrons and positrons is assumed to be Maxwellian, with a uniform temperature,  $T$ . Since the probability of annihilation of fast positrons is extremely small (W. Heitler. Quantum theory of radiation. Cited in Russian translation, Foreign Publ. House. Moscow, 1956) the nonrelativistic case only is examined. A device is proposed in which an annular detector with a specified subtended angle  $\Delta\Omega$  is used.

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On the possible investigation of high-concentration ... S/725/61/000/003/008/008

will pick up all these photons which fly out under that angle, and the distribution of the number of coincidences per unit time versus a range of angles will yield a curve having a maximum, the location or the semiwidth of which yields a measure of the electron temperature of the plasma. On the other hand, for a given positron concentration  $n_p$ , the value of the angular distribution maximum provides an indication of the electron concentration of the plasma and its electron-energy spectrum. An analysis of the "braking" of fast positrons injected from outside into the plasma shows that positrons with energies in excess of 10 kev have so long a braking time, that the probability of their passing through a test setup about 1 m in size without annihilation is very great throughout the range of concentrations investigated. Thus, for plasma electron concentrations of  $n_e = 10^{15}$  to  $10^{17} \text{ cm}^{-3}$ , positron energies not to exceed 10 kev are mandatory, with positron concentrations of the order of  $n_p = 10^4$  to  $10^2 \text{ cm}^{-3}$ .

Special positron sources may be required to make available slow positrons in such concentrations. Recent work on the accumulation of fast positrons in a magnetic trap (Gibson, G., et al., Phys. Rev. Lett., v. 5, no. 4, 1960; Korobochko, Yu.S., et al., ZhTF, v. 30, no. 8, 1962, 981-984) offers much promise. A related study (apparently unpublished) on the determination of the electron temperature of a plasma from the angular correlation during two-photon annihilation (Gol'danskiy, V.I., Physics Institute imeni P.N. Lebedev, AS USSR, 1958) is cited, together with

Card 2/3

On the possible investigation of high-concentration ... S/725/61/000/003/008/008  
an expression for the angular distribution and the relationship between the semiwidth  
of the distribution and the plasma electron temperature proposed therein. There  
are 4 figures and 2 references (3 Soviet and 5 English-language, of which the  
Heitler book is cited in Russian translation). X

ASSOCIATION: None given.

Card 3/3

- SAZYKIN, A.A. (Moskva)

Shape of the "relativistic cube." Priroda 50 no.8:89-90 Ag '61.

(MIRA 14:7)

(Astrodynamics)

FIERZ, Markus, red.; PUZIKOV, A.A.[translator]; SAZYKIN, A.A.  
[translator]

[Studies on automatic control, remote control, and measuring engineering] Nauchnye raboty po avtomatike, telemekhanike i izmeritel'noi tekhnike; annotirovannyi spravochnik za 1951-1961 gg. Kiev, Izd-vo Akad. nauk USSR, 1961. 71 p.

Translated from the English. (MIRA 16:4)

l. Akademiya nauk URSR, Kiev. Instytut mashynoznaystva ta avtomatyky, Lvov.

(Bibliography--Automatic control)

(Bibliography--Remote control)

BUKHARIN, Viktor Vladimirovich; IRINARKHOVA, A.M., retsenzent;  
YEVSEYEV, N.F., retsenzent; SAZYKIN, A.N., retsenzent;  
SERIK, A.P., red.

[Safety measures in the oils and fats industry] Tekhnika  
bezopasnosti v maslozhirovoi promyshlennosti. Moskva,  
Pishchevaiia promyshlennost', 1964, 170 p.

(MIRA 18:4)

1. TSentral'nyy komitet Profsoyuza rabochikh pishchevoy  
promyshlennosti (for Yevseyev). 2. Zaveduyushchiy labo-  
ratorii tekhniki bezopasnosti Vsesoyuznogo nauchno-  
issledovatel'skogo instituta zhirov (for Sazykin).

GOLUBENTSEV, D.A.; SAZYKIN, G.V.

Tissue respiration and glycolysis in the development of acute  
radiation sickness. Vop.med.khim. 6 no.1:49-52 Ja-F '60.

(MIRA 13:5)

(RADIATION INJURY exper.)  
(TISSUE METABOLISM radiation eff.)  
(CARBOHYDRATES metab.)

IVANOVA, M.N., inzhener; SAZYKIN, I.A., inzhener; CHERNAVSKIY, V.P.,  
kandidat tekhnicheskikh nauk.

Unused resources for increasing the labor productivity in  
constructing roadbeds. Transp. stroi. 6 no.8:1-5 Ag '56.

(MLRA 9:10)

(Road machinery)

SAZYKIN, I.A., inzh.

Dynamic compression testing of saturated sand. Transp.stroi.  
10 no.7:39-41 J1 '60. (MIRA 13:7)  
(Soil mechanics) (Sand—Testing)

SAZYKIN, I. A.

Cand Tech Sci - (diss) "Study of the action of waves of the stability of ground foundation made of fine-grained sand under a plate strengthened bank." Moscow, 1961. 19 pp with diagrams; (Ministry of Higher and Secondary Specialist Education RSFSR, Moscow Order of Labor Red Banner Construction Engineering Inst imeni V.V. Kuybyshev); 200 copies; price not given; (XL, 6-61 sup, 225)

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YAROSLAVTSEV, I.A., kand. tekhn. nauk; SAZYKIN, I.A., kand. tekhn. nauk

Elastic filterless embankment from reinforced concrete. Transp.  
stroi. 14 no.9:24-25 S '64 (MIRA 18:1)

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SAZYKIN, N.A., inzh.

Roller-ring pendulum mill. Khim. i neft. nauchnostr. no.4:43-44  
O '64. (MIRA 17:12)

SAZYKIN, Nikolay Stepanovich; GUSEV, S.P., red.izd-vo; BYKOVA, V.V.,  
tekhn.red.

[Tin and petroleum of southeastern Asia and the struggle for  
their sources between the American and British monopolies]  
Olovo i neft' IUGo-Vostochnoi Azii i bor'ba za ikh istochniki  
mezhdu amerikanskimi i angliiskimi monopoliiami. Moskva, Gos.  
nauchno-tekhn.izd-vo lit-ry po geol. i okhrane nedr, 1960.  
95 p. (MIRA 14:2)

(Asia, Southeastern--Tin mines and mining)  
(Asia, Southeastern--Petroleum industry)

SAZYKIN, N.S., kand.ekon.nauk

Reserves of raw materials for the steel industry in capitalist countries. Gor. zhur. no.12:17-19 D '60. (MIRA 13:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut mineral'nogo syr'ya, Minsk.  
(Steel industry) (Ore deposits)

TYURIN, Ye.; FYZH, V.; SAZYKIN, P.

Using mechanized cold and hot bending and straightening of  
parts for ship structures; Odessa Ship Repair Yard. Inform.  
sbor.TSNIIMF no.26:25-33 '58. (MIRA 13:4)

1. Odesskiy sudoremontnyy zavod No.1.  
(Odessa--Shipyards--Equipment and supplies)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447520004-4

SAZYKIN,P.

To the source of the Don. Geog. v shkole no.2:64-65 Mr-Ap '53.

(MLRA 6:5)

(Don River--Description and travel)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447520004-4"

SAZYKIN, P.D., uchitel'

Protection of nature and the school. Biol. v shkole 6:56-57  
N-D '58. (MIRA 11:11)

1. Shkola rabochey molodezhi g. Bronnitsy Moskovskoy oblasti.  
(Natural resources--Study and teaching)

"APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447520004-4

SAZYKIN, P.D., uchitel' (Bronnitsy Moskovskoy oblasti)

Participation of students in conservation. Biol. v shkole no.1:56-  
58 Ja-F '62. (MIRA 15:1)  
(CONSERVATION OF NATURAL RESOURCES)

APPROVED FOR RELEASE: 03/14/2001

CIA-RDP86-00513R001447520004-4"

BALANDIN, G.A.; SAZYKIN, S.P.

Postvaccinal pathergy in brucellosis. Report No. 1. Zhur. mikrobiol.,  
epid. i immun. 40 no. 8:44-49 Ag '63. (MIRA 17:9)

1. Iz Rostovskogo-na-Donu nauchno-issledovatel'skogo protivochumnogo  
instituta.

BALANDIN, G.A.; SAZYKIN, S.P.

Postvaccinal pathergy in brucellosis. Report No.1. Zhur.  
mikrobiol., epid. i immun. 41 no.1:81-84 Ja '64.

(MIRA 18:2)

1. Rostovskiy-na-Donu nauchno-issledovatel'skiy protivochumnyy  
institut.

SAZYKIN, V.I., inzh.

Using indices to evaluate the standardization of ship plans.  
Sudostroenie 29 no.11:53-54 N '63. (MIRA 16:12)

ACC NR: AT/001710

SOURCE CODE: UR/2694/65/000/143/0010/0014

AUTHOR: Kortov, V. S.; Sukhanova, K. A.; Sazykin, V. V.

ORG: none

TITLE: Control of the total thickness of a bimetallic rolled sheet and of the thickness of its steel base

SOURCE: Sverdlovsk. Ural'skiy politekhnicheskiy institut. Trudy, no. 143, 1965.  
Atomnaya i molekulyarnaya fizika (Atomic and molecular physics), 10-14

TOPIC TAGS: bimetal, metal rolling, thickness gauge, radioisotope, gamma scattering

ABSTRACT: The article describes a model of a new radioisotopic thickness gauge, intended to control the operation of rolling mills for metallurgical shops producing thin rolled bimetallic sheets. The base of such a bimetal is a thin sheet of soft low-carbon steel, on which an antifriction aluminum alloy is deposited by rolling. Each batch of bimetal has to satisfy certain tolerances with respect to the thickness of the individual layers. The apparatus consists of the steel base and auxiliary equipment. The radioisotopic thickness gauge for the steel base is similar to that described in the same source (p. 5, Acc. Nr. AT7001709) and is based on spatial separation of the scattered  $\gamma$  radiation from the primary source radiation. A model of the new instrument (Fig. 1) was constructed at the Electrophysical Laboratory of the Physicotechnical Department of the Ural Polytechnic Institute and was tested in the plant. The tests show that the new instrument can monitor a total thickness of bi-

Card 1/2

ACC NR: AT7001710

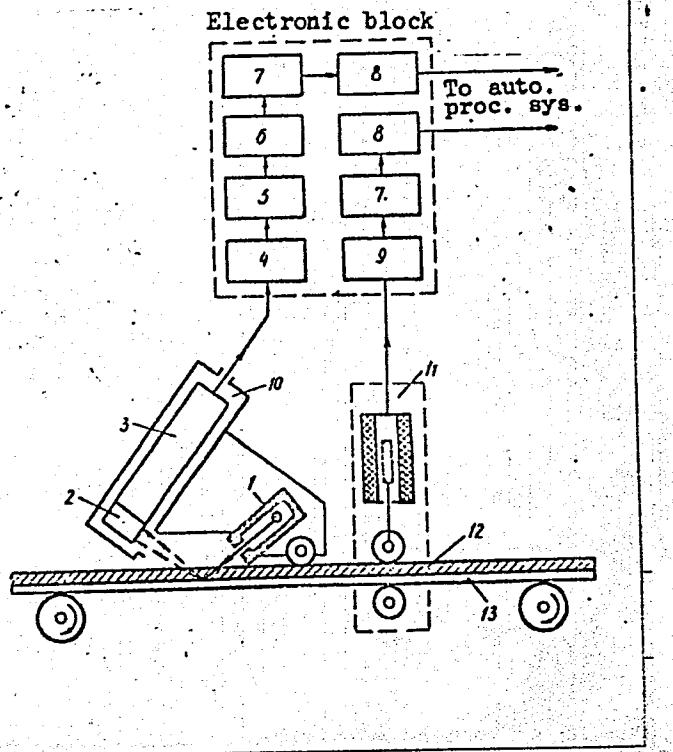
Fig. 1. Diagram of instrument for automatic monitoring of the total thickness of rolled bimetal sheet and the thickness of its steel base. 1 -  $\text{Co}^{60}$  source; 2 - NaI(Tl) scintillation crystal; 3 - photomultiplier; 4 - logarithmic amplifier; 5 - normalizer; 6 - intensity meter; 7 - comparison unit; 8 - relay-signal output unit; 9 - phase sensitive rectifier; 10 - radiisotopic pickup; 11 - inductive pickup; 12 - steel base of sheet; 13 - aluminum cladding of sheet.

metal in the range 2.8 - 6.2 mm, for strips up to 300 mm wide and 2000 mm long. The tolerance is  $\pm 0.2$  mm.  
Orig. art. has: 1 figure.

18,  
SUB CODE: 20, 14/ SUBM DATE: 00

ORIG REF: 006

Card 2/2



L 24361-66 EWT(1)/EWT(m) IJP(c) JD/JG

ACC NR: AP6008118

SOURCE CODE: UR/0139/66/000/001/0189/0189

AUTHORS: Shul'gin, B. V.; Gavrilov, F. F.; Sazykin, V. V.

ORG: Ural Polytechnic Institute im. S. M. Kirov (Ural'skiy  
politekhnicheskiy institut)

TITLE: Storing of light sum in LiH phosphor

SOURCE: IVUZ. Fizika, no. 1, 1966, 189

TOPIC TAGS: lithium compound, hydride photoluminescence, luminophor, thermoluminescence, uv irradiation, gamma irradiation, neutron irradiation, alpha bombardment, electron trapping

ABSTRACT: This is a continuation of earlier articles (Trudy Ural'skogo Politekhnicheskogo Instituta, No. 143, 41, 1965 and earlier, Izv. AN SSSR ser. fiz. v. 29, No. 3, 415, 1965) dealing with the discovery and investigation of short-duration yellow, orange, and red photoluminescence of LiH. The present article presents results of an investigation of the thermoluminescence curves of the blue luminescence of LiH when exposed to ultraviolet from a mercury lamp, to

Card 1/2

L 24361-66

ACC NR: AP6008118

15-MeV radiation from a betatron (beta and gamma particles), to 5.12-MeV  $\alpha$  particles, and to  $(n + \gamma)$  radiation from a Ra-Be source. Paraffin 6 cm thick was used as the neutron moderator. The crystals were heated in darkness to 300°C and the irradiation was at room temperature in a vacuum. The radiation was recorded with a photomultiplier, amplifier, and automatic recorder. The time of irradiation of the crystals before plotting the de-excitation curves was 10 -- 15 days for neutrons and  $\alpha$  particles, 10 -- 15 hours for the betatron radiation, and 20 -- 30 minutes for the uv irradiation. The temperature was raised at a rate of 35 -- 40 deg/min. The de-excitation curves show three peaks at 80 -- 90°C, 140 -- 150°C, and 230 -- 300°C. The highest peak has a superimposed structure. When exposed to ultraviolet all three types of electron traps corresponding to the peaks are filled approximately uniformly. When exposed to neutrons,  $\alpha$  particles, and betatron radiation, it is essentially the deep traps which are filled (peak at 230 -- 300°C). Having blue luminescence and being capable of storing the light sum, LiH is of great interest as a detector of ionizing radiation. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 06Oct64/ ORIG REF: 003/

Card: 2/2 *slm*

SAYKIN, Yu. G.

Dissertation: "A Question on the Mechanism of the Antibacterial Action of Altomycin."  
Cand. Biol. Sci., Acad. Med. Sci. USSR, 3 Jun 54. Vechernaya Moskva, Moscow, 21 May 54.

SO: SUM 284, 26 Nov 1954

*SEARCH FOR NEW ANTIBIOTICS*

Effect of aerobic and anaerobic conditions of growth of bacteria on antibacterial activity of albamycin and other antibiotics. V. A. Shorin and Yu. O. Savkin. *Doklady Akad. Nauk S.S.R.* 96, 645-7 (1954). Albamycin at all concns. represses the aerobic metabolism of staphylococcus and intestinal bacteria but has no effect on their anaerobic metabolism. Streptomycin in therapeutic concns. behaves similarly, while at high concns. it also represses the anaerobic metabolism. Aureomycin and chloromyctin repress bacterial growth regardless of aerobic or anaerobic conditions of the culture. G. M. Kosolapoff

*Inst. Search for new Antibiotics,  
AMS USSR*

B

SAZYKIN, Yu. O.

Cand. Biol. Sci.

"USSR Conference on Methods of Searching for Antibacterial, Antivirus, and Anti-cancer Antibiotics," Vest. Ak. Med. Nauk SSSR, No.4, 1955 f 51-60

Translation W-31723, 27 Mar 56

U S S R .

Research on effects of albomycin and some other antibiotics on proliferation in bacterial cultures. Yu. O. Sazykin (Research Inst. for New Antibiotics Acad. Med. Sci. U.S.S.R., Moscow). *Mikrobiologiya* 24, 75-81 (1955).— Albomycin has a wide spectrum of antibiotic activity, about equal for gram-pos. and gram-neg. organisms. When used together with penicillin its usual bacteriostatic action shifts more toward a degenerative effect like that of penicillin. Comparative tests against *Staphylococcus aureus* and *Escherichia coli* were made at the following concns. (in  $\gamma/ml.$ ): albomycin 0.0014-0.14; penicillin 0.025-0.82; streptomycin 1-100; Aureomycin 1-30; chloramycetin 1-20. J. J. B. P. Smith

Sazykin, Yu. O.

The role played by certain conditions in the inhibition of oxidizing processes by streptomycin in resting cells of *Escherichia coli*. Yu. O. Sazykin. Antibiotiki 1, No. 4, 35-7 (1956). -No difference was noted in the action of streptomycin (I) on the respiration of 3 different cultures of *E. coli*. I suppressed the oxidative processes of *E. coli* only when it was added to the bacteria simultaneously with the substrate, as, glucose, pyruvic acid, or AcOH. Culture growth did not affect the activity of I (cf. C.A. 45, 6694b).

D. M. Caen

Inst for Research in New Antibiotics AMS USSR

*SAKARYAN, JU. G.*

A study of the antibacterial action of colimycin. Yu. O. Kazykin. Antibiotiki 1, No. 5, 17-20 (1956).—Colimycin (I) appears to be a bactericidal antibiotic for *Micrococcus pyogenes* var. *cureus* (II) and *Escherichia coli* (III), and is somewhat stronger as a bactericide than streptomycin. I in therapeutic doses, suppresses the aerobic metabolism of facultative anaerobes II and III. It suppresses the oxidation of glucose, glycerol, and pyruvic and acetic acids by III when it is added to a suspension of III simultaneously with the oxidizable substrate. Mycerin and neomycin react in all cases analogously to I. Cf. C.A. 48, 18806; 49, 11780d.

*V*  
*1956*  
Dated M. Chern

*Lab for Study of Therapeutic Properties of New Antibiotics  
Inst po izucheniiya tschelnykh sivystv novykh antibiotikov  
Inst of the Search for New Antibiotics, AMN USSR  
Inst po izucheniiyu novykh antibiotikov AMN SSSR*

SAZYKIN-YU.O.

Comparative study of some properties in original and alboycin-acclimated strains of bacteria. Yu. O. Sazykin. *Mikrobiologiya* 25, 30-3 (1958).—Alboycin-acclimated bacterial strains differ only slightly from the original strains in properties usually tested, e.g. hemolytic, plasma-coagulating, sugar oxidizing, ammonifying and H<sub>2</sub>S-forming activity, halophilism, and responses to aerobic and anaerobic conditions. Micrococci undergo a moderate loss in hemolytic, coagulant and carbohydrate-oxidizing activity, and the H<sub>2</sub>S-forming capacity of intestinal bacteria is impaired somewhat. Julian F. Smith

Research Inst for New Antibiotics AMS USSR

USSR/Microbiology. Antibiosis and Symbiosis. Anti-  
biotics

F-2

Abs Jour : Rof Zhur - Biol., No 14, 1953, № 62341

Author : Sazykin Yu.O.

Inst : -  
Title : The Mechanism of the Antimicrobial Action of Anti-  
biotics.

Orig Pub : Antibiotiki. So. porov. obz. i ref. in. period.  
lit., 1957, No 3, 3-15

Abstract : No abstract

Card : 1/1

SAZYKIN, Yu.O.

Study on certain properties of bacteria adapted to colimycin  
[with summary in English]. Antibiotiki 3 no.1:98-102 Ja-P'58  
(MIRA 11:5)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh  
svoystv novykh antibiotikov Instituta po izyskaniyu novykh  
antibiotikov AMN SSSR.

(ESCHERICHIA COLI, effect of drugs on,  
colimycin, adapted strains (Rus))

(MICROCOCCUS PYOGENES, effects of drugs on  
same)

(ANTIBIOTICS, effects,  
colimycin, on E. coli & Micrococcus pyogenes, adapted  
strains (Rus))

YUDINTSEV, S.D., otv.red.; GAUZE, G.F., red.; MAYEVSKIY, M.M., red.;  
SAZYKIN, Yu.O., red.; SHORIN, V.A., red.; ZAKHAROVA, A.I..  
tekhn.red.

[Transactions of a symposium: Means and methods in the search  
for anticancerous antibiotics] Trudy Simpoziuma "Puti i metody  
izyskaniiia protivorakovykh antibiotikov". Red.kollegiia: S.D.  
IUDintsev i dr. Moskva, Gos.izd-vo med.lit-ry, 1959. 206 p.

1. Akademiya meditsinskikh nauk SSSR, Moscow. Institut po  
izyskaniyu novykh antibiotikov. 2. Iz Instituta eksperimental'noy  
patologii i terapii raka Akademii meditsinskikh nauk  
SSSR (for Mayevskiy).

(CANCER) (ANTIBIOTICS)

SAZYKIN, Yu.O.

Instability of oxidizing properties of strains of Escherichia coli adapted to colimycin and streptomycin and resistant to these antibiotics. Antibiotiki, 4 no.2:49-53 Mr-Ap '59. (MIRA 12:7)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh svoystv novykh antibiotikov Instituta po izyskaniyu novykh antibiotikov AMN SSSR.

(ESCHERICHIA COLI, eff. of drugs on colimycin & streptomycin, resist. & instability of oxidizing properties of adapted strains (Rus))

(STREPTOMYCIN, eff.

on E. Coli. resist. & instability of oxidizing properties of adapted strains (Rus))

(ANTIBIOTICS, eff.

colimycin, on E. coli, resist. & instability of oxidizing properties of adapted strains (Rus))

SAZYKIN, Yu.O.

Reaction of antibiotics of the neomycin group with methylene blue and on the impossibility of the utilization of Thunberg's method for the study of the effect of neomycins on dehydrogenases in bacteria. Antibiotiki 4 no.4:96-99 Jl-Ag '59.  
(MIRA 12:11)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh svoyst novykh antibiotikov Instituta po izyskaniyu novykh antibiotikov AMN SSSR.

(NEOMYCIN pharmacol)  
(DEHYDROGENASES metab)  
(METHYLENE BLUE metab)  
(BACTERIA metab)

SAZYKIN, Yu.O.

Effect of certain enzymatic poisons, antimetabolites, and antibiotics  
on strains of Escherichia coli sensitive and adapted to colimycin.  
Antibiotiki 4 no.6:84-87 N-D '59. (MIRA 13:3)

1. Laboratoriya eksperimental'nogo izucheniya lechebnykh svoystv  
novykh antibiotikov Instituta po izyskaniyu novykh antibiotikov  
AMN SSSR. (ESCHERICHIA COLI pharmacol.)

SAZYKIN, Yu.O.

Mechanism of the action of antibiotics on the metabolism of micro-  
organisms. Antibiotiki 6 no.5:453-472 My '61. (MIRA 14:7)  
(ANTIBIOTICS)

BERGEL'SON, L.D.; LEVITOV, M.M.; MOLOTKOVSKIY, Yul.G.; SAZYKIN, Yu.O.;  
SHEMYAKIN, M.M.

Synthesis and study of the antimicrobial action of the simplest  
analogues of macrolide antibiotics. Antibiotiki 6 no.7:581-585  
Jl '61. (MIRA 15:6)

1. Institut khimii prirodnnykh soyedineniy AN SSSR.  
(ANTIBIOTICS)

SAZYKIN, Yu.O.; BORISOVA, G.N.

Action of antibiotics from the neomycin group on the penetration  
of metabolites into the microbial cells. Antibiotiki 6 no.8:  
710-714 Ag '61. (MIRA 15:6)

1. Laboratoriya biokhimii Instituta khimii prirodnykh  
soyedineniy AN SSSR.  
(NEOMYCIN) (DEHYDROGENASE) (ESCHERICHIA COLI)

SAZYKIN, Yu.O.; BORISOVA, G.N.

Study of the action of a new antifungal substance, the methyl ester of 4-keto-5-decynoic acid, on the metabolism of *C. albicans* and *S. cerevisiae*. Antibiotiki 8 no.8:717-723 Ag '63.  
(MIRA 17:5)

1. Laboratoriya biokhimii Instituta khimii prirodnykh soyedineniy AN SSSR.

SAZYKIN, Yu. O.; CHERNUKH, A. M.

"A study of effects of streptomycin-like antibiotics on protein and nucleic acid synthesis in antibiotic-sensitive and antibiotic-resistant bacteria."

report submitted for Antibiotics Cong, Prague, 15-19 Jun 64.

Inst for Pharmacology & Chemotherapy, AMS USSR, Moscow.

SAZYKIN, Yu.G.; CHMENOKH, A.M.

Effect of antibiotics from the neomycin group on the synthesis  
of proteins and nucleic acids by bacteria under aerobic and  
anaerobic conditions. Antibiotiki 8 no.9:796-802 S '63.

(MIRA 17:11)

1. Otdel khimioterapii Instituta farmakologii i khimioterapii  
AMN SSSR.

SAZYKIN, Yu.O.; CHERNUKH, A.M.

Effect of neomycins on the protein synthesis in resting  
Escherichia coli cells determined by induced synthesis  
of enzymes and incorporation of S<sup>35</sup>-methionine into proteins.  
Antibiotiki 9 no.4:318-323 Ap '64. (MIRA 19:1)

1. Otdel khimioterapii Instituta farmakologii i khimioterapii  
AMN SSSR, Moskva.

BAVSKIN, Ye.P.; CHUPRIKOV, A.N.

Study of the effect of monomycin and kanamycin on the synthesis  
of protein and nucleic acids in the cells of Escherichia coli.  
Antibiotiki 9 no.11:1007-1012 N '64. (MIRA 18:3)

1. Otdel khimoterapii Instituta farmakologii i khimoterapii  
AMN SSSR, Moskva.

SAZYKIN, Yu.O.; CHERNUKH, A.M.

Isolation and properties of the E. coli strains for the growth  
of which are needed streptomycin like antibiotics or macrolides.  
Mikrobiologija 33 no.4:672-678 Jl-Ag '64. (MIRA 18:3)

1. Institut farmakologii i khimioterapii AMN SSSR.

SAZYKIN, Yu.O.; CHERNUKH, A.M.

Neomycin-depending strain of Escherichia coli and the characteristics  
of the development of infection caused by it in mice. Pat. fiziol. i  
eksp. terap. 9 no.5:24-27 S-0 '65. (MIRA 19:1)

1. Otdel khimioterapii (zav. ~ prof. A.M. Chernukh) Instituta  
farmakologii i khimioterapii AMN SSSR, Moskva. Submitted April 29,  
1964.

SAZYKIN, Yuriy Osipovich; KRETOVICH, V.L., otv.red.; KAPNER,  
R.B., red.

[Biochemical principles of the action of antibiotics on  
the microbial cell] Biokhimicheskie osnovy deistviia anti-  
biotikov na mikrobnuiu kletku. Moskva, Nauka, 1965. 265 p.  
(MIRA 18:1)

1. Chlen-korrespondent AN SSSR (for Kretovich).

SAZYKIN, Yu.O.

Intensity of protein synthesis in the microbial cell as a factor determining the capacity of neomycins to affect its metabolism. Antibiotiki 10 no.6: 518-522 Je '65. (MIRA 18:7)

1. Otdel khimioterapii (zav. - prof. A.M.Chenukh) Instituta farmakologii i khimioterapii AMN SSSR, Moskva.

SAZYKIN, Yu.O.; NAVASHIN, S.M.

Penicillamine and its use in medical practice. Antibiotiki 10 no.6:  
562-573 Je '65. (MIRA 18:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut antibiotikov, Moskva.

SAZYKIN, YU. V.

Bee Culture

"Raspberry--a valuable nectar plant". Pchelovodstvo, 29, no. 4, 1952.

9. Monthly List of Russian Accessions, Library of Congress, August 1952, Uncl.

Sazykin, Yu. V.

Nectar secretion in gooseberries and black currants:  
Yu. V. Sazykin. *Pchelovedstv* 3, 43-6 (1953); *Bee World*  
38, 50 (1957).—A study of 4 varieties of gooseberries over 4  
years showed that the av. amt. of sugar secreted/flower is  
1.07-1.72 mg./day. Depending upon the variety, nectar  
secretion lasted 3-5 days. A 3-year study showed that the  
av. amt. of sugar secreted/flower of black currant is 1.4-2.7  
mg./day; the sugar concn. in the black-current nectar is  
13.3-35%, with an av. of 31.8%. *W. G. Wells*

refd

SAZYKIN, Yu. V.

SAZYKIN, YU. V. "The Role of Bees in Pollinating Berry Bushes and the Significance of Plantings of Fruits and Berry crops as a Fodder base for Beekeeping under the Conditions of the Central Regions of the non-chernozem belt." Moscow Order of Lenin Agricultural Academy imeni K. A. Timiryazev. Moscow, 1956 (For the Degree of Candidate in Agricultural Science)

So: Knizhnaya Letopis' No. 18, 1956

SAZYKIN, Yurii Vasil'yevich; MITROPOL'SKIY, Aleksandr Grigor'yevich;  
SHEMETKOV, Mikhail Filippovich; KURITSYNA, Nina Mikhaylovna;  
TORKAYLO, I., red.; KLIMENKOVA, Ye., red.; KALECHITS, G.,  
tekhn.red.

[Beekeeper's manual] V pomoshch' pchelovodu. Minsk, Gos.izd-vo  
BSSR. Red. sel'khoz.lit-ry, 1959. 154 p. (MIRA 13:4)  
(Bee culture)

KLIMENKOVA, Ye.T.; SAZYKIN, Yu.V.; SHEMETKOV, M.F.; SULKOVSKIY,  
M.I.; KOSTOGLODOV, V.F.; SHUL'GA, K., red.; ZUYKOVA, V.,  
tekhn. red.

[Handbook for beekeepers] Spravochnik pchelovoda. Minsk,  
Gos.izd-vo sel'khoz. lit-ry BSSR, 1963. 360 p.  
(MIRA 16:4)

(Bee culture)

RUSINOV, A.A.; VOSKOBOYNIKOV, V.N.; DUBINKO, T.P.; ILYUSHIN, V.I.;  
VRUBLEVSKAYA, F.L.; BUNCHUK, M.I.; RIABEN'KIY, L.M.; MARGOLIN,  
D.I.; SAZYKINA, K.V., kand.ekon.nauk; BUGAREVICH, V.S.;  
KUPTSOVA, V.A.; KALINOVSKIY, M.D.; MELESHKEVICH, O.A.;  
TYABUT, M.A., red.; LAZARCHIK, K., red.; KALECHITS, G.,  
tekhn.red.

[Reference book on the establishment of work norms on collective  
farms] Spravochnik po normirovaniyu truda v kolkhozakh. Minsk,  
Gos.izd-vo BSSR, Red.sel'khoz.lit-ry, 1960. 151 p.

(MIRA 14:3)

1. Akademiya sel'skokhozyaystvennykh nauk BSSR. Institut ekono-  
miki. 2. Institut ekonomiki i organizatsii sel'skokhozyaystvennogo  
proizvodstva Akademii sel'skokhozyaystvennykh nauk BSSR (for  
Voskoboinikov, Dubinko, Ilyushin, Vrublevskaya, Bunchuk, Bugarevich,  
Kuptsova, Kalinovskiy). 3. Starshiy inspektor Upravleniya po  
orgkolkhoznym delam Ministerstva sel'skogo khozyaystva BSSR (for  
Meleshkevich).

(Agriculture--Production standards)

ORLOV, Georgiy Vasil'yevich [Arlou, H.V.], kand. tekhn. nauk;  
SAZYKINA, Klavdiya Vasil'yevna, kand. ekon. nauk; TARKAYLA, I.,  
red.; ZEN'KO, M., tekhn. red.

[Material and technical foundation of agriculture and basic  
ways for its development] Materyial'na-teknichnaya baza sel'-  
skoi haspadarki i asnouryia shliakhi iae razvitscia. Minsk,  
Dziarzh.vyd-va sel'skahaspadarchai lit-ry BSSR, 1962. 49 p.  
(MIRA 15:11)

(White Russia—Agriculture)

SAZYKINA, L.L.

High-strength foamed slag concrete for reinforced structural  
elements. Sbor. nauch. trud. Dnepr. inzh.-stroj. inst. no.31:  
35-39 '63 (MIRA 18:1)

SAZYKINA, L.P.; SPERANSKAYA, Z.N.

Using the gluing method for the lasting of sandals with  
artificial leather uppers. Kozh.-obuv.prom. 2 no.2:25  
F '60. (MIRA 13:5)

(Sandals)

SAZYKINA, L.P.; SPERANSKAYA, Z.N.

Rapid analysis of solvents. Kozh.-obuv.prom.3 no.3:34-35  
Mr '61. (MIRA 14:6)  
(Solvents--Analysis)

SAZYKINA, O.P., aspirant; ARONINA, Yu.N., kand. tekhn. nauk, dotsent

Active dyes. Nauch. trudy MTILP no.26:89-108 '62.

(MIRA 17:5)

1. Kafedra tekhnologii kozhi i mukha Moskovskogo tekhnologicheskogo instituta legkoy promyshlennosti.

SAZYKINA, O.P., aspirant; ARONINA, Yu.N., kand. tekhn. nauk, dosent;  
LAVROVÁ, A.P., inzh.

Nature of the interaction of active dyes with the hair carotene.  
Report No.2. Nauch. trudy MTILP no.30:83-90 '64.

(MIRA 18:6)

1. Kafedra tekhnologii kozhi i mekha Moskovskogo tekhnologicheskogo  
instituta legkoy promyshlennosti.

SAZYKINA, O.P., aspirant; AKNINA, Yu.N., kand. tekhn. nauk, dotsent;  
STARKOVA, Ye.S., inzh.

Effect of active dyes on the physicomechanical properties of  
the fur hair covering. Report No.3. Nauch. trudy MFILP no.30:  
91-95 '64. (MIRA 18:6)

1. Kafedra tekhnologii kozhi i mekha Moskovskogo tekhnologicheskogo  
instituta legkoy promyshlennosti.

SELIVANOVA, N.M.; SAZYKINA, T.A.

Physicochemical properties of selenates; the heat of formation  
of cesium selenate. Trudy MKHTI no.38:26-29 '62.

(MIRA 16:7)

(Cesium selenate) (Heat of formation)

SELIVANOVA, N.M.; SHNEYDER, V.A.; SAZYKINA, T.A.

Physicochemical properties of selenates. Part 12: Heat of formation of lithium selenates from elements. Izv.vys.ucheb.zav.;-khim.i khim.tekh. 5 no.2:183-187 '62. (MIRA 15:8)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni D.I. Mendeleyeva kafedra obshchey i neorganicheskoy khimii.  
(Lithium selenates) (Heat of formation)

SELIVANOVA, N.M.; ZUBOVA, G.A.; KALINKINA, A.A.; SAZYKINA, T.A.

Physicochemical properties of selenates. Part 15: Behavior  
of rubidium selenate during heating. Izv.vys.uch.zav.; khim.i  
khim.tekh. 5 no.4:524-528 '62. (MIRA 15:12)

1. Moskovskiy khimiko-tehnologicheskiy institut imeni  
D.I. Mendeleyeva, kafedra obshchey i neorganicheskoy khimii.  
(Rubidium selenate)

S/153/62/005/006/001/015  
E071/E392

AUTHORS: Selivanova, N.M., Sazykina, T.A. and Zubova, G.A.

TITLE: Physicochemical properties of selenates.  
XVL. Investigation of the behavior of cesium  
selenate on heating

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy, Khimiya i  
khimicheskaya tekhnologiya, v. 5, no. 6, 1962,  
859 - 863

TEXT: Since there are no literature data on the behavior  
of cesium selenate on heating, investigations were carried out on  
this subject by differential thermal analysis, determination of  
changes in weight and composition as well as X-ray photography  
of  $Cs_2SeO_4$  at various temperatures. Cesium selenate used in the  
tests was obtained by oxidizing cesium selenite with 30%  $H_2O_2$ .  
The selenite was prepared by neutralization of cesium carbonate  
with selenious acid. It was found that cesium selenate decomposed  
slightly when heated from 200 to 600  $^{\circ}C$ , forming cesium selenite.  
Further heating up to 1 000  $^{\circ}C$  did not produce any changes in  
composition and structure. There was a reversible endothermic  
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S/153/62/005/006/001/015  
E071/E392

Physicochemical properties ....

effect on the heating curve at 608 °C which could be explained as being due to the polymorphic transformation of the rhombic cesium selenate crystals into hexagonal. The second endothermic effect on the curve at 985 °C corresponded to melting without decomposition. Cesium selenate was noticeably evaporating at 900 °C and over, without changing its composition.

There are 1 figure and 3 tables.

ASSOCIATION:

Kafedra obshchey i neorganicheskoy khimii,  
Moskovskiy khimiko-tehnologicheskiy institut  
im. D.I. Mendeleyeva (Department of General  
and Inorganic Chemistry, Moscow Institute of  
Chemical Technology im. D.I. Mendeleyev)

SUBMITTED:

September 22, 1961

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33276  
S/078/62/007/002/002/019  
B119/B110

5.2400 1087

AUTHORS: Selivanova, N. M., Sazykina, T. A.

TITLE: Thermal decomposition of lithium selenate

PERIODICAL: Zhurnal neorganicheskoy khimii, v. 7, no. 2, 1962, 240 - 243

TEXT: The investigation of the thermal behavior of selenates is of interest for the recovery of Se from sludge; the production of luminophores, enamels, and glazes; and in the glass industry. Thermal analysis of  $\text{Li}_2\text{SeO}_4 \cdot \text{H}_2\text{O}$  was performed with a recording Kurnakov pyrometer (heating rate 6 - 8 deg/min; temperature measuring with a Pt - Pt/Rh thermocouple). The decomposition products were studied by chemical and x-ray diffraction analyses. The change in weight of the substance with increasing temperature was studied. Results:  $\text{Li}_2\text{SeO}_4 \cdot \text{H}_2\text{O}$  shows three significant endothermic effects. The first effect at 150 - 190°C corresponds to the reaction  $\text{LiSeO}_4 \cdot \text{H}_2\text{O} \longrightarrow \text{Li}_2\text{SeO}_4$ ;  $\text{Se}^{6+}$  is partly reduced to  $\text{Se}^{4+}$ . The second effect (at 680 - 690°C) corresponds to the congruent

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Thermal decomposition of...

33276  
S/078/62/007/002/002/019  
B119/B110

melting of  $\text{Li}_2\text{SeO}_4$ . At  $840^\circ\text{C}$  (third effect) the melted  $\text{Li}_2\text{SeO}_4$  is decomposed as follows:  $\text{Li}_2\text{SeO}_4 \rightarrow \text{Li}_2\text{SeO}_3 + 1/2 \text{O}_2$ . A paper by V. I. Spitsyn, V. I. Shostak (Ref. 11: Zh. obshch. khimii, 19, 1801 (1949)) is mentioned among others. There are 1 figure, 1 table, and 16 references: 6 Soviet and 10 non-Soviet. The four references to English-language publications read as follows: V. Lehner, E. Wechter. J. Amer. Chem. Soc., 47, 1523 (1925); D. F. Adams, L. I. Gilberston. Ind. Eng. Chem. Anal. Ed., 14, 926 (1942); L. R. Rogers, F. K. Calley. Ind. Eng. Chem. Anal. Ed., 15, 209 (1943); R. M. Gruver. J. Amer. Ceram. Soc., 34, 353 (1951). X

SUBMITTED: February 24, 1961

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SELIVANOVA, N.M.; SAZYKINA, T.A.

Heat of formation of sodium selenate decahydrate. Zhur.neorg.khim.  
7 no.3:536-539 Mr '62. (MIRA 15:3)  
(Sodium selenates) (Heat of formation)

SELIVANOVA, N.M.; SAZYKINA, T.A.

Physicochemical study of selenates. Part 21: Heat of formation of  
rubidium selenate. Izv.vys.ucheb.zav.; khim.i khim.tekh. 6 no.4:  
531-533 '63. (MIRA 17:2)

1. Moskovskiy khimiko-tehnologicheskiy institut im. Mendeleyeva.  
Kafedra obshchey i neorganicheskoy khimii.